

NS0-593^{Q&As}

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QUESTION 1

You have a NetApp ONTAP cluster consisting of four NetApp FAS8200 controllers with two NetApp CN1610 cluster switches running ONIAP 9.8 software. You are receiving several alert messages stating that the cluster network has degraded. After troubleshooting, you determine that the errors are being generated from Node 2, interface e0b.

In this scenario, what should you do first to solve this problem?

- A. Replace the Twinax cable between Node 2, Interface e0b. and the NetApp CN1610 switch.
- B. Replace the motherboard on Node 2.
- C. Replace both NetApp CN1610 switches.
- D. Replace the NetApp CN1610 switch that connects to Node 2, interface e0b.

Correct Answer: B

QUESTION 2

A customer reports that some of their client computers are unable to access a FlexGroup over CIFS. This problem involves only their older Windows XP clients and some printers and scanners.

In this scenario, which statement is correct?

- A. FlexGroup requires CIFS shares to be located in qtrees, which these clients do not support.
- B. FlexGroup requires CIFS shares to use the Continuously Available Feature, which these clients do not support.
- C. These systems use the SMQI protocol which is an unsupported feature in FlexGroup
- D. These systems use Offloaded Data Transfer, which is an unsupported feature in FlexGroup.

Correct Answer: B

QUESTION 3

A storage administrator reports that a monitoring tool is reporting that the storage controller reads between 90% to 93% CPU use. You run the `sysstat -m` command against the node in question.

| ANY1+ | ANY2+ | ANY3+ | ANY4+ | ANY5+ | ANY6+ | ANY7+ | ANY5+ | AVG | CPU0 | CPU1 | CPU2 | CPU3 | CPU4 | CPU5 | CPU6 | CPU7 |
|--------------|--------|-----------|----------|---------|-------|---------|--------|--------|--------|---------|--------|------|------|------|------|------|
| Nwk_Excl | Nwk_Lg | Nwk_Exmpt | Protocol | Storage | Raid | Raid_Ex | Xor_Ex | Target | Kahuna | WAFL_Ex | (Kahu) | | | | | |
| WAFL_MPClean | SM | Exempt | Exempt | SSAN_Ex | Intr | Host | Ops/s | CP | | | | | | | | |
| 99% | 87% | 83% | 55% | 52% | 74% | 66% | 46% | 52% | 62% | 54% | 54% | 54% | 53% | 53% | 54% | 53% |
| (82%) | | 2% | 0% | 37% | 0% | 13% | 26% | 40246 | 25% | | | | | | | |
| 99% | 89% | 86% | 71% | 55% | 75% | 65% | 46% | 54% | 64% | 56% | 56% | 56% | 55% | 56% | 56% | 56% |
| (75%) | | 1% | 0% | 37% | 0% | 14% | 7% | 44963 | 25% | | | | | | | |
| 100% | 89% | 86% | 71% | 56% | 50% | 72% | 44% | 56% | 53% | 57% | 57% | 57% | 56% | 56% | 57% | 57% |
| (76%) | | 7% | 0% | 41% | 0% | 13% | 5% | 39012 | 44% | | | | | | | |
| 99% | 89% | 85% | 70% | 55% | 75% | 71% | 52% | 55% | 67% | 56% | 56% | 57% | 56% | 56% | 56% | 56% |
| (77%) | | 0% | 0% | 39% | 0% | 13% | 22% | 40034 | 37% | | | | | | | |
| 99% | 89% | 86% | 71% | 56% | 50% | 74% | 47% | 57% | 50% | 55% | 55% | 55% | 55% | 55% | 55% | 55% |
| (77%) | | 6% | 0% | 43% | 0% | 13% | 5% | 39573 | 70% | | | | | | | |
| 99% | 85% | 84% | 59% | 53% | 75% | 66% | 55% | 53% | 65% | 54% | 54% | 54% | 54% | 54% | 54% | 54% |
| (76%) | | 3% | 0% | 37% | 0% | 14% | 11% | 41991 | 10% | | | | | | | |
| 99% | 89% | 86% | 72% | 55% | 54% | 79% | 54% | 59% | 55% | 59% | 59% | 60% | 59% | 59% | 60% | 60% |
| (77%) | | 4% | 0% | 44% | 0% | 12% | 11% | 35750 | 99% | | | | | | | |
| 99% | 89% | 85% | 70% | 54% | 75% | 70% | 53% | 55% | 69% | 56% | 56% | 56% | 55% | 55% | 56% | 56% |
| (76%) | | 1% | 0% | 43% | 0% | 13% | 5% | 35792 | 30% | | | | | | | |
| 99% | 85% | 84% | 59% | 53% | 77% | 70% | 52% | 54% | 67% | 55% | 56% | 55% | 55% | 56% | 56% | 55% |
| (77%) | | 3% | 0% | 47% | 0% | 14% | 7% | 36943 | 47% | | | | | | | |

| | | | | | | | | | | |
|----|-----|------|----|----|----|-----|----|----|----|------|
| 1% | 11% | 293% | 0% | 4% | 1% | 15% | 1% | 0% | 3% | 145% |
| 1% | 1% | 329% | 0% | 4% | 0% | 14% | 1% | 0% | 2% | 165% |
| 1% | 0% | 307% | 0% | 5% | 0% | 19% | 3% | 0% | 2% | 155% |
| 1% | 1% | 255% | 0% | 5% | 0% | 16% | 2% | 0% | 2% | 293% |
| 1% | 0% | 256% | 0% | 6% | 0% | 21% | 4% | 0% | 2% | 204% |
| 1% | 3% | 301% | 0% | 6% | 1% | 15% | 0% | 0% | 2% | 165% |
| 1% | 1% | 254% | 0% | 6% | 0% | 22% | 4% | 0% | 3% | 251% |
| 1% | 1% | 253% | 0% | 6% | 0% | 19% | 1% | 0% | 3% | 201% |
| 1% | 1% | 275% | 0% | 7% | 0% | 22% | 2% | 0% | 3% | 195% |

Referring to the exhibit, which statement is correct?

- A. The customer should be advised to exclude certain workflows to reduce use.
- B. High network exempt use could be a problem.
- C. You should immediately investigate further by gathering perfstat data and opening a support case.
- D. The CPU Is not a first-order monitoring metric for ONTAP.

Correct Answer: C

QUESTION 4

Your customer added a new DS4246 shelf to their FAS2750 single-node system and created a new aggregate on the new shelf. Two weeks later, they log into Active IQ and discover the Medium Impact error shown below. Shelves with

both connections via the same SAS path detected

```

===== SAS-EXPANDER-MAP =====
Expanders on channel 0a:
Level 1: WWN 500a098005f0ed3f, ID 0, Serial Number ' SHJHU1527000148', Product
'DS424IOM6E ', Rev '0172', Slot A
Level 2: WWN 500a098005b053bf, ID 1, Serial Number ' SHFHU1516001218', Product
'DS224IOM6 ', Rev '0191', Slot A
Level 3: WWN 500a09800772e3bf, ID 2, Serial Number ' SHJHU1653000119', Product
'DS424IOM6 ', Rev '0191', Slot A
Level 4: WWN 500a098005af77bf, ID 1, Serial Number ' SHFHU1516001218', Product
'DS224IOM6 ', Rev '0191', Slot B
Level 5: WWN 500a09800773b8bf, ID 2, Serial Number ' SHJHU1653000119', Product
'DS424IOM6 ', Rev '0191', Slot B

Expanders on channel 0b:
Level 1: WWN 500a09800773b8bf, ID 2, Serial Number ' SHJHU1653000119', Product
'DS424IOM6 ', Rev '0191', Slot B
Level 2: WWN 500a098005af77bf, ID 1, Serial Number ' SHFHU1516001218', Product
'DS224IOM6 ', Rev '0191', Slot B
Level 3: WWN 500a09800772e3bf, ID 2, Serial Number ' SHJHU1653000119', Product
'DS424IOM6 ', Rev '0191', Slot A
Level 4: WWN 500a098005b053bf, ID 1, Serial Number ' SHFHU1516001218', Product
'DS224IOM6 ', Rev '0191', Slot A
Level 5: WWN 500a098005f0ed3f, ID 0, Serial Number ' SHJHU1527000148', Product
'DS424IOM6E ', Rev '0172', Slot A
    
```

Referring to the exhibit, which statement is correct?

- A. In a FAS2750 system, the internal shelf is only seen on one path, and the external shelves are seen on two paths.
- B. The cables are cabled Incorrectly on the SAS stack.
- C. This situation is normal for a FA57750 single-node system.
- D. Active IQ Is not aware of the shelf configuration for a single-node system.

Correct Answer: C

QUESTION 5

You have a new VMware vSphere cluster with ESXI 7.0U2 hosts. The hosts are connected to a 4-node AFF A400 NetApp ONTAP9.8 cluster with FC LUNs. You have a requirement to identify and follow I/Os from each VM on the shared FC LUN-backed datastores for troubleshooting purposes.

In this scenario, which VMware feature Is supported by ONTAP software to accomplish this task?

- A. Network I/O Control (NIOC)
- B. Virtual machine ID (VMID)
- C. Storage I/O Control (SIOC)
- D. vSphere Cluster Services (vCLS)

Correct Answer: D

QUESTION 6

Your customer complains about missing volume snapshot copies on a SnapMirror destination. While investigating this case, you notice an executed SnapMirror resync operation in the event logs of the system. In this scenario, what is the cause of this problem?

- A. Newer Snapshot copies than the common snapshot that was chosen for resync were removed automatically at the destination.
- B. The autodelete option removed Snapshot copies before the resync.
- C. Snapshot copies were manually removed from the destination after the resync.
- D. NetApp ON TAP System Manager removed these snapshot copies due to a snapshot schedule.

Correct Answer: C

QUESTION 7

When an administrator tries to create a share for an existing volume named voll, the process fails with an error.


```

cluster1:~> vservers cifs share create -vservers svml -share-name voll -
path /voll
Error:
command failed: The specified path "/voll" does not exist in the namespace belonging to Vserver
"svml".

cluster1:~> vservers cifs share show
Vserver      Share      Path      Properties Comment  ACL
-----
svml         admin$    /         browsable -      -
svml         c$        /         oplocks  -      BUILTIN\Administrators /
Full Control

svml         ipc$      /         browsable
changenotify
show-previous-versions
browsable -      -

3 entries were displayed.

cluster1:~> vservers cifs show
Server      Status  Domain/Workgroup Authentication
Vserver    Name    Admin   Name          Style
-----
svml      SVM1    up      DEMO          domain

cluster1:~> volume show -vservers svml -volume voll

Vserver Name: svml
Volume Name: voll
Aggregate Name: cluster1_01_SSD_1
List of Aggregates for FlexGroup Constituents: cluster1_01_SSD_1
Encryption Type: none
List of Nodes Hosting the Volume: cluster1-01
Volume Size: 20MB
Name Ordinal: base
Volume Data Set ID: 1028
Volume Master Data Set ID: 2162375168
Volume State: online
Volume Style: flex
Extended Volume Style: flexvol
FlexCache Endpoint Type: none
Is Cluster-Mode Volume: true
Is Constituent Volume: false
Export Policy: default
User ID: -
Group ID: -
Security Style: -
UNIX Permissions: -----
Junction Path: -
Junction Path Source: -
Junction Active: -
Junction Parent Volume: -
Junction Active: true
Junction Parent Volume: svml_root
Vserver Root Volume: false
Comment:
Available Size: 18.76MB
Filesystem Size: 20MB
Total User-Visible Size: 19MB
Used Size: 244KB
Used Percentage: 1%
...
Volume Tiering Policy: none
Volume Tiering Minimum Cooling Days: -
Performance Tier Inactive User Data: -
Performance Tier Inactive User Data Percent: -

```

Referring to the exhibit, what is the reason for the error?

- A. The volume must have a type of DP.
- B. The volume has not been mounted.

- C. The CIFS service is not authenticating properly with the domain controller.
- D. The CIFS service is not in workgroup mode.

Correct Answer: B

QUESTION 8

A customer is calling you to troubleshoot why users are unable to connect to their CIFS SVM.

```
ClusterB::> storage disk show -broken

Original Owner: Node03
Checksum Compatibility: block

Physical Disk                               Drawer Usable
-----
Chan  Pool  Type  Outage Reason  HA Shelf Bay /slot  Size  Size
-----
--
1.0.2  failed  3b    0  2  -/-  B
FAILED BSAS  7200  1.62TB  1.62TB

ClusterB::> cluster ring show
Node      UnitName Epoch  DB Epoch DB Trnxs Master  Online
-----
Node03    mgmt     11     11     4875  Node04  secondary
Node03    vldb     0       11     358   -       offline
Node03    vifmgr   11     11     4892  Node04  secondary
Node03    bcomd    11     11     62    Node04  secondary
Node03    crs      11     11     6     Node04  secondary
Node04    mgmt     11     11     4875  Node04  master
Node04    vldb     0       11     358   -       offline
Node04    vifmgr   11     11     4892  Node04  master
Node04    bcomd    11     11     62    Node04  master
Node04    crs      11     11     6     Node04  master
10 entries were displayed.

ClusterB::> system node run -node Node04 -command aggr status -r aggr2
Aggregate aggr2 (online, raid_dp, degraded) (block checksums)
Plex /aggr2/plex0 (online, normal, active, pool0)
RAID group /aggr2/plex0/rg0 (degraded, block checksums)

RAID Disk Device                               HA SHELF BAY CHAN Pool Type  RPM  Used (MB/blks)  Phys
(MB/blks)
-----
dparity  FAILED
parity  3c.0.11  3c  0  11  SA:B  0  BSAS  7200  2538546/ -
2543634/5209362816
data  3c.0.12  3c  0  12  SA:B  0  BSAS  7200  2538546/5198943744
2543634/5209362816
data  3c.0.13  3c  0  13  SA:B  0  BSAS  7200  2538546/5198943744
2543634/5209362816
data  3c.0.14  3c  0  14  SA:B  0  BSAS  7200  2538546/5198943744
2543634/5209362816
```

Referring to the Information shown in the exhibit, what is the source of the problem?

- A. Thev1db database is offline.
- B. The aggregate aggr2 has a failed disk.

- C. The databases On Node03 must be Switched from secondary to master.
- D. The broken disk in Node03 is the source of the problem.

Correct Answer: C

QUESTION 9

A customer calls you to troubleshoot a network issue. The customer wants to create a packet trace for allclients on the 192.168.9.0/24 subnet.

```

cli::> network interface show -vserver CIFS
-----
Vserver      Logical   Status   Network   Current   Current   Is
Interface    Admin/Op  Address/Mask  Node      Port      Home
-----
CIFS
nfs1         up/up    10.92.4.202/16  cli1n1    e2a-1092  true
iscsi1      up/up    10.91.3.132/24  cli1n1    a0a-322   true
iscsi2      up/up    10.95.7.114/24  cli1n1    a0a-456   true
mgmt        up/up    10.92.6.200/16  cli1n1    e2a-1092  true
nfs2        up/up    192.168.3.9/24  cli1n1    e2a-100   true
-----
cli::> network route show -vserver CIFS
-----
Vserver      Destination  Gateway      Metric
-----
CIFS
              0.0.0.0/0    10.92.0.1    10
              0.0.0.0/0    10.92.0.2    20
              10.81.50.140/32 192.168.3.254 20
              192.168.9.0/24 192.168.3.254 20
5 entries were displayed.

```

Referring to the exhibit, on which interface do you have to run the packet trace?

- A. a0a-322
- B. e2a-100
- C. e2a-1092
- D. a0a-456

Correct Answer: C

QUESTION 10

Your customer Informs you about SnapMirror problems after upgrading NetApp ONTAP software to a newer version. After investigating the event logs and the SnapMirror history, you see information about delayed updates of the SnapMirror relationships.

How would your customer prevent such problems in the future?

- A. Quiesce the SnapMirror relationships before upgrading the ONTAP software.
- B. Verify that the cabling of the hardware port that is responsible for SnapMirror transfers is correct.
- C. Modify the schedules of the SnapMirror relationships after upgrading the ONTAP software.
- D. Delete the SnapMirror relationships and create them new after upgrading the ONTAP software.

Correct Answer: B

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